COTTON CHATS

DRAPER COMPANY, HOPEDALE, MASS.

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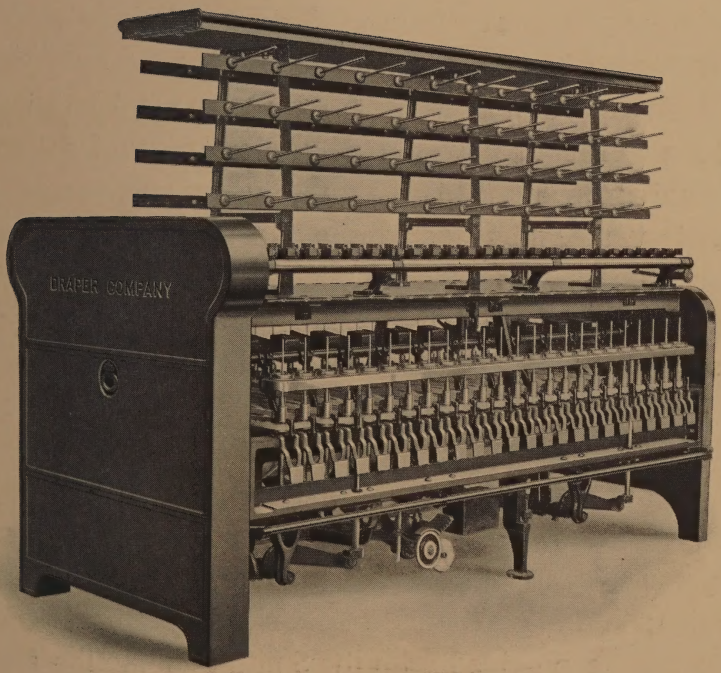


OUR TAPE DRIVEN TWISTER

Our tape driven twister, illustrated on first page, was designed primarily to meet the requirements of the worsted trade and to enable us to obtain certain orders. For years worsted twisters had been equipped with spindles driven by flat bands or tapes; users of such machines claimed that they produced yarns of more uniform twist; that the tapes lasted much longer than round bands and that there was a saving of power in tape driven machines as compared with the band drive.

About four years ago we approached the problem with view of making not only a tape driven twister, but **the best tape driven twister** on the market. The most of the machines previously constructed were so arranged in conveying the power from cylinder to spindles that it was necessary to have the machine much wider than with a band drive. As floor space is expensive we determined to build a twister that would at least be no wider than our standard machine. In this we were successful. Our special arrangement includes a ten inch cylinder located away from the center of machine, and connected with the spindles in groups of four spindles each. An idler pulley in self oiling bearings is mounted between cylinder and spindles to take up the slack of the tape and with an adjustable weight to regulate the amount of tension.

The tape driven twister has the same optional features as the older machine with band drive. It can be operated on regular or reverse twist; can be built for wet or dry twisting; can have single or double line top and bottom rolls; can be provided with the Smith Stop Motion for two ply yarns; can be equipped with our patent attachments for novelty yarns.

For worsted yarns we have a special friction arrangement for vertical spools, with alternative glass steps for tender yarns.

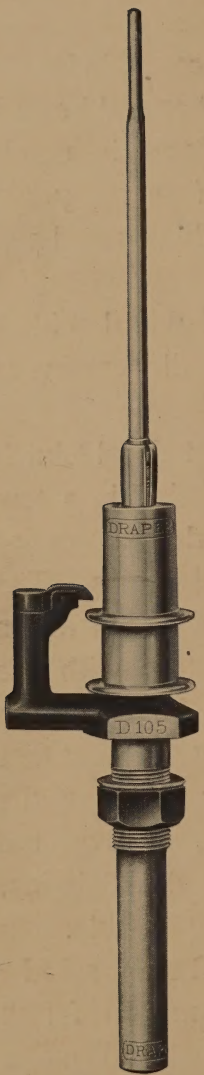
Our standard #105 Draper twister spindle is used with rings up to two and one-half inches and heavier spindles of same type are used with larger rings; thousands of these spindles have stood the test of many years' service; they are capable of running at a high speed and consume a minimum amount of power.

We have simply replaced the grooved whorl with a pulley to fit the tape and otherwise the spindle remains as before.

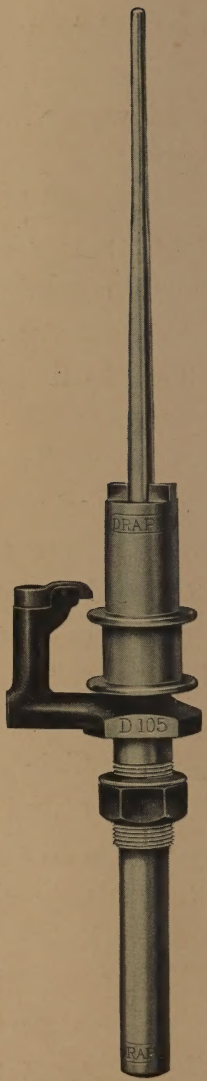
The advent of the Rabbeth Patent Centrifugal Clutch used on spinning spindles raised the question in a few places where the centrifugal clutch had made a success as to its adaptability to twister spindles and bobbins. The importance of this method of holding the bobbins led to a definite order for a large number of twisters with the centrifugal clutch spindle. These twisters have been in use a sufficient length of time to demonstrate the fact that the centrifugal clutch has ample capacity to drive the bobbin without material slip. Incidentally, it saves the expense of cutting slots in the bottom of the bobbins, and this leaves them much stronger and more durable.

Our experience with the Centrifugal Clutch spindle in spinning and twisting leads us to recommend it for all twisters using rings of two and one-half inches diameter and smaller.

DRAPER 105 TWISTER SPINDLES WITH WHORLS FOR TAPE DRIVE



With Patent Centrifugal Clutch



With Solid Whorl